

Muscles of Mastication Group

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Problem Statement

In veterinary anatomy education, there is a notable absence of interactive, hands-on models that illustrate the muscles of mastication for both carnivores and herbivores. This gap limits students' ability to engage in effective learning and understanding of the complex relationships between muscular and bony structures. Our goal is to develop two models that accurately replicate the anatomy of mastication muscles in two carnivores and herbivores allowing for the visualization of muscle function and clearly define individual muscles to enhance educational outcomes.

Brief Status Update

We are currently preparing for our presentation on Friday 10/4. We have gone to the MakerSpace twice, but it has been closed for training.

Summary of Weekly Team Member Design Accomplishments

- Team:
 - Prepared for our preliminary presentation and started our preliminary report
- Jensen Weik:
 - Attempted to go to the MakerSpace
 - Background research for presentation and preliminary report
 - Revised the PDS
- Kaiya Merritt:
 - Attempted to get help from the MakerSpace to get help on 3D printing
 - Completed my preliminary slides and practiced presenting my slides
 - Started the preliminary report and researching some articles to help write it
- An Hua:

- Attempted to receive guidance and feedback from the MakerSpace on 3D printing
- Completed preliminary slides and first draft of the preliminary report
- Revised the PDS with feedback given
- Noah Kalthoff:
 - Worked on my slides for the preliminary presentation
 - Worked on the preliminary report
 - Continued research on TPU
- Leah Nelson:
 - Worked on and completed the first draft of the preliminary report
 - Worked on and completed slides for the presentation
 - Research about synthetic muscles and scaffolding to help aid in brainstorming about how we will design the muscles

Weekly/Ongoing Difficulties

The team has yet to receive guidance from the MakerSpace about 3D printing due to its limited availability. There was also difficulty in finding STL files regarding horse and canine muscles to 3D print.

Upcoming Team and Individual Goals

- Team:
 - Complete the preliminary report
 - Consult with the MakerSpace to begin fabrication in SolidWorks
- Jensen Weik:
 - Consult the MakerSpace
 - Revise the preliminary report
- Kaiya Merritt:
 - Meet with the MakerSpace to start fabricating our skulls and mastication muscles
 - Complete the preliminary report and continue research
- An Hua:
 - Meet with the MakerSpace
 - Practice presenting the preliminary slides
 - Revise preliminary report after receiving feedback
- Noah Kalthoff:
 - Finish the preliminary report
 - Start creating STL files for the necessary muscles
- Leah Nelson:
 - Present the preliminary slides and finish up last touches on preliminary report
 - Figure out with makerspace on how we will design and print the muscles and skull

Component 3									
TOTAL:								\$0.00	

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TOTAL:

\$0.00